

FIG.1

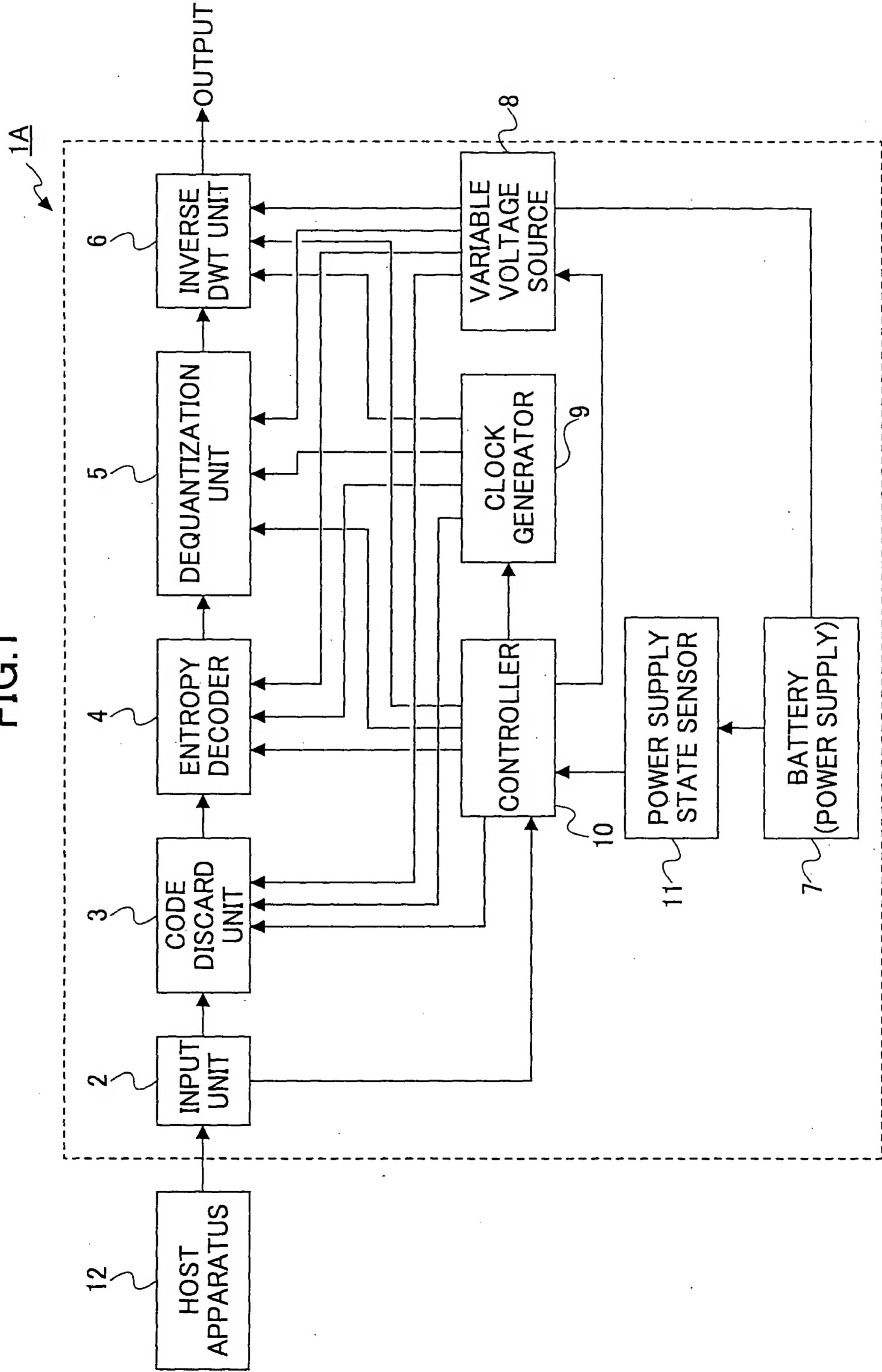


FIG.2

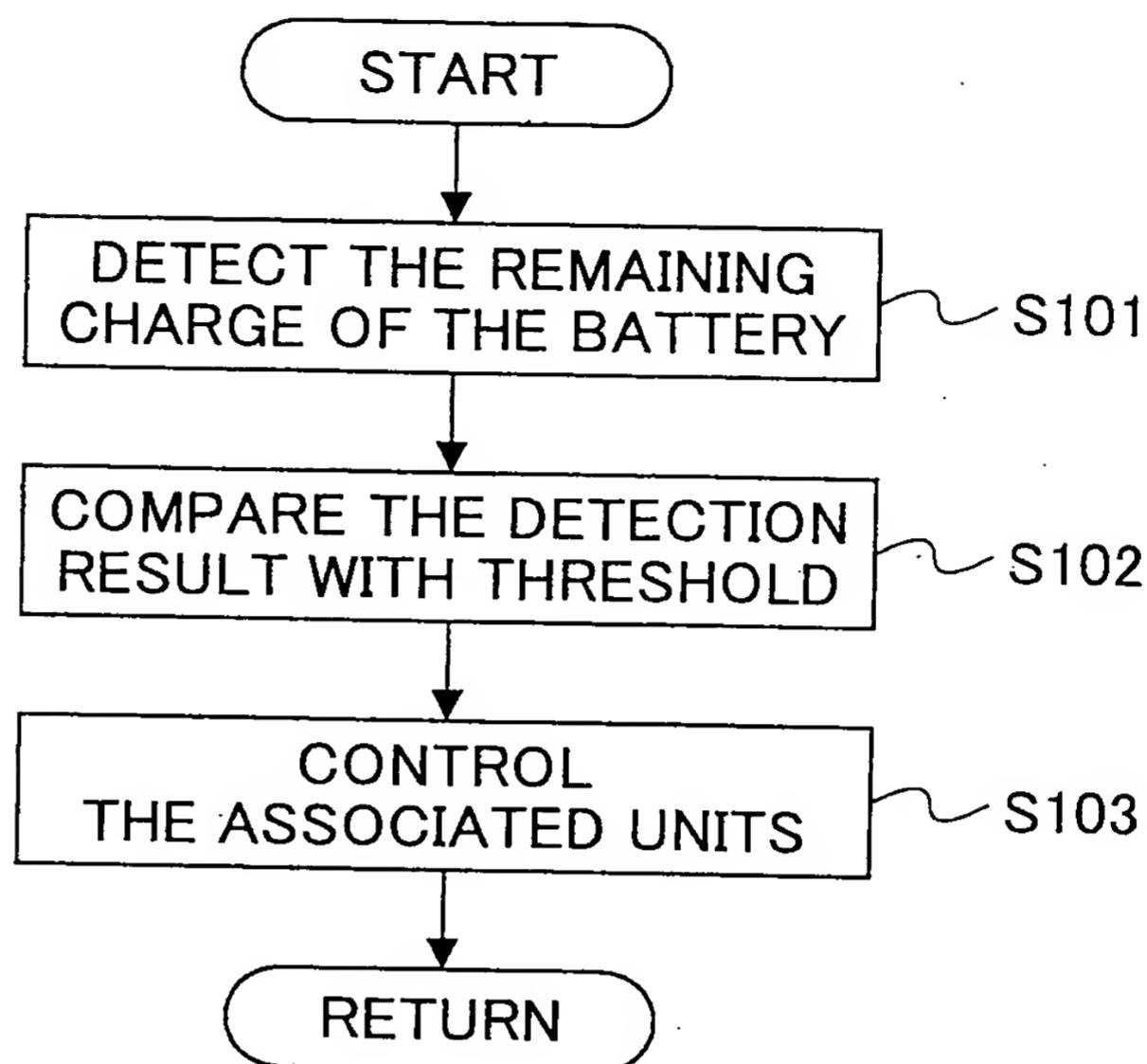


FIG.3

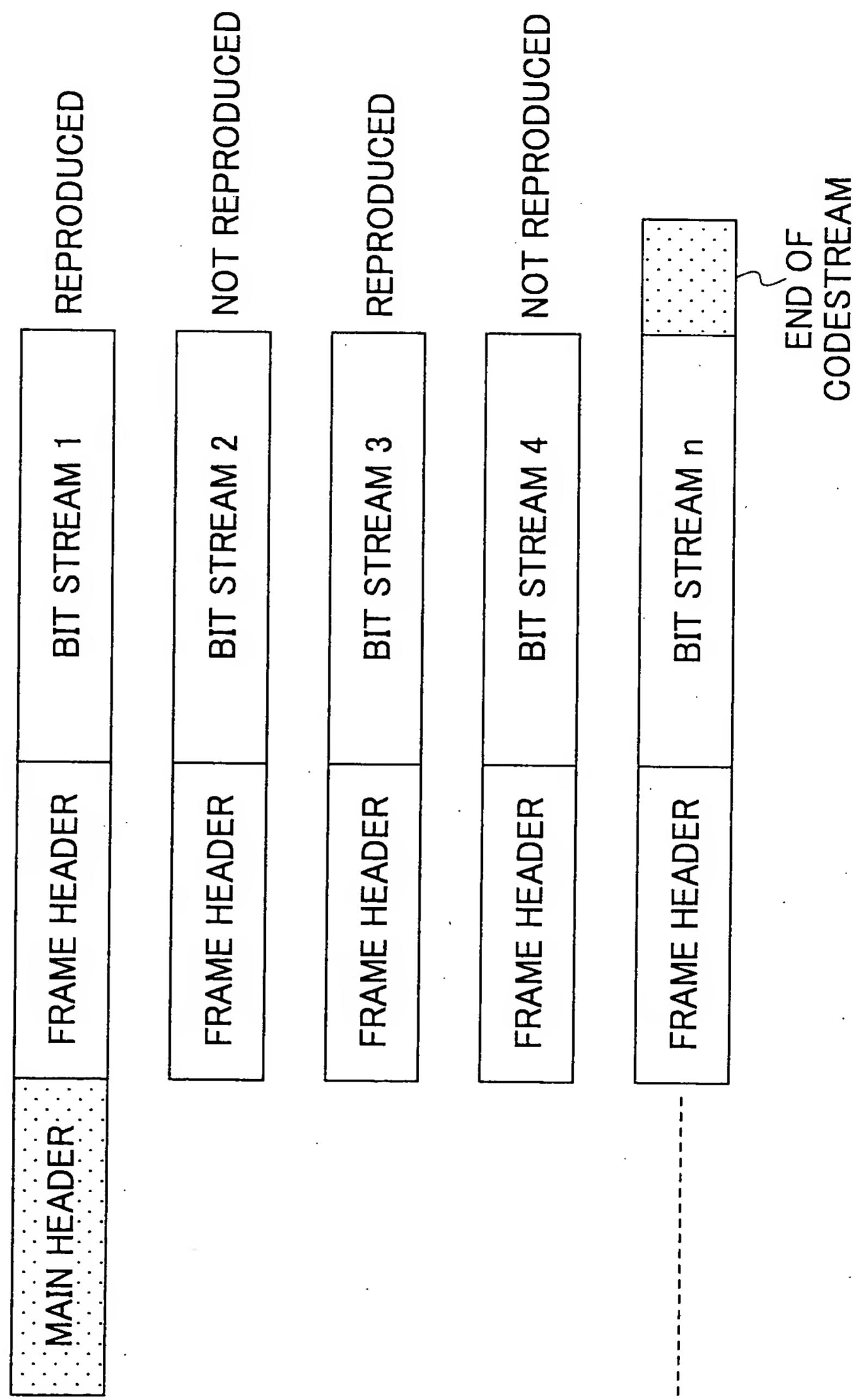


FIG.4

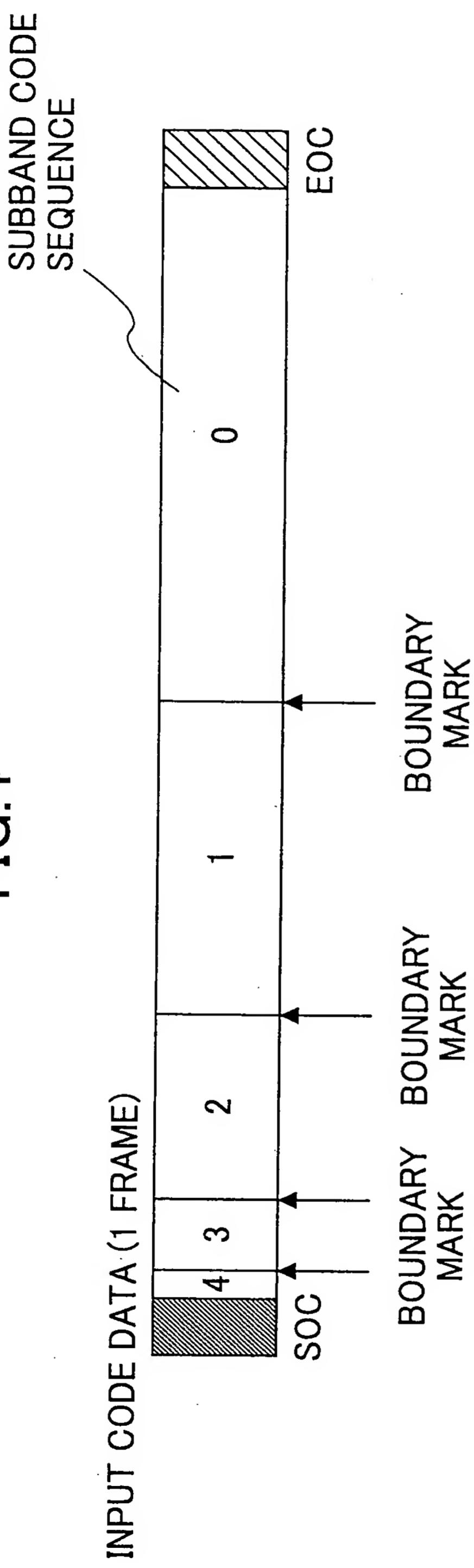


FIG.5

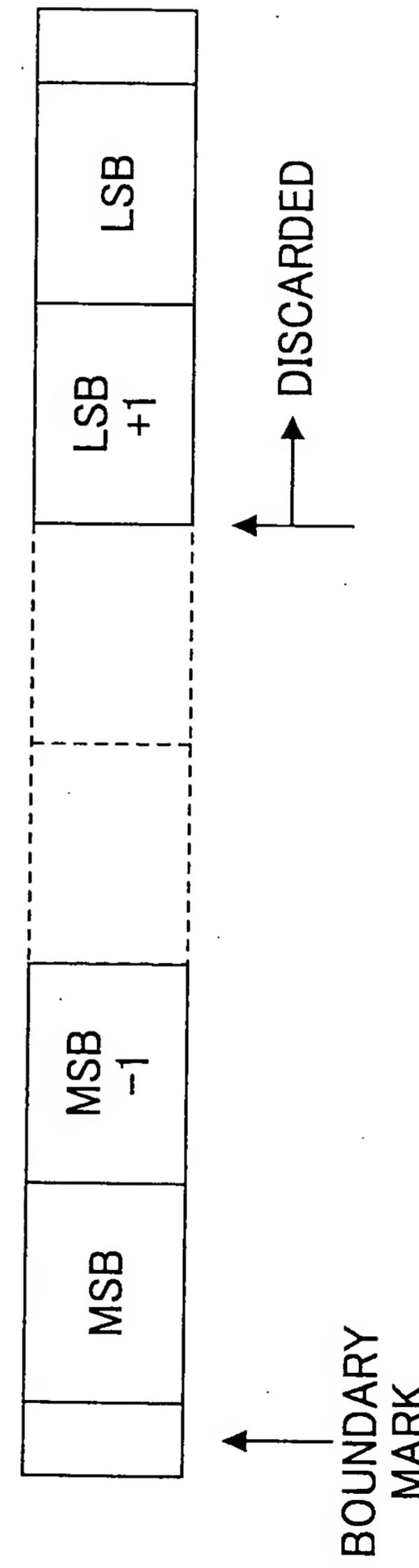


FIG.6A

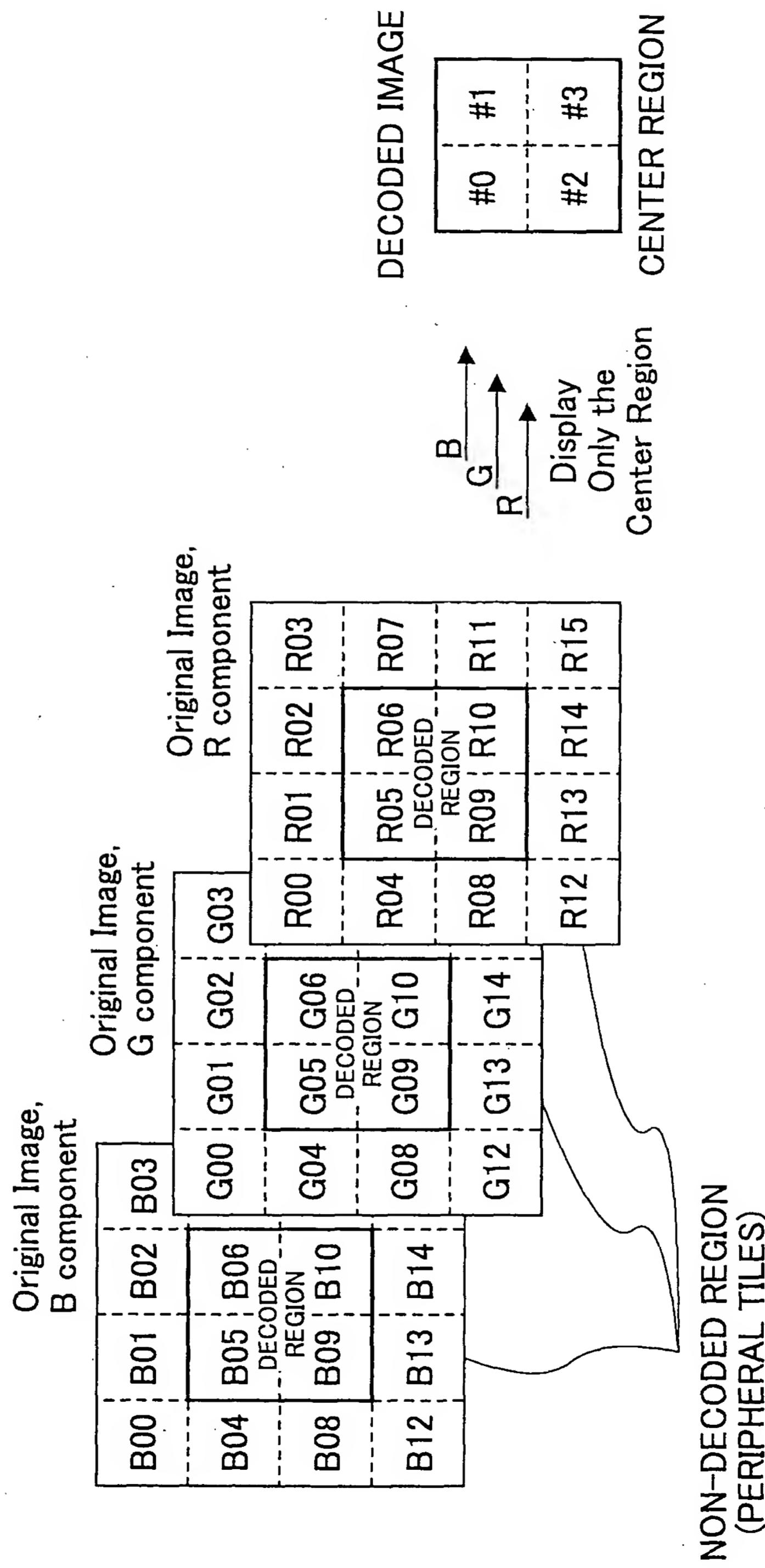


FIG.6B

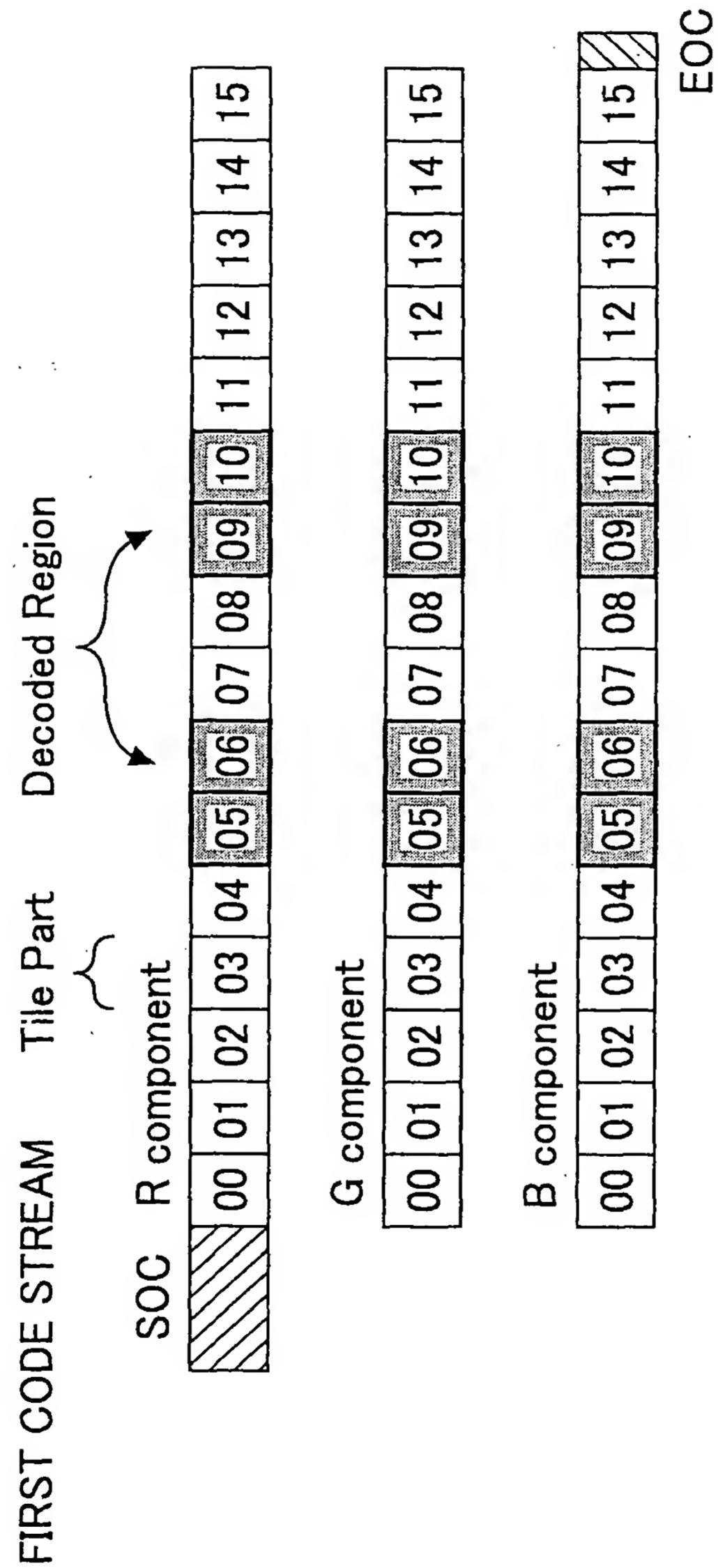


FIG.7

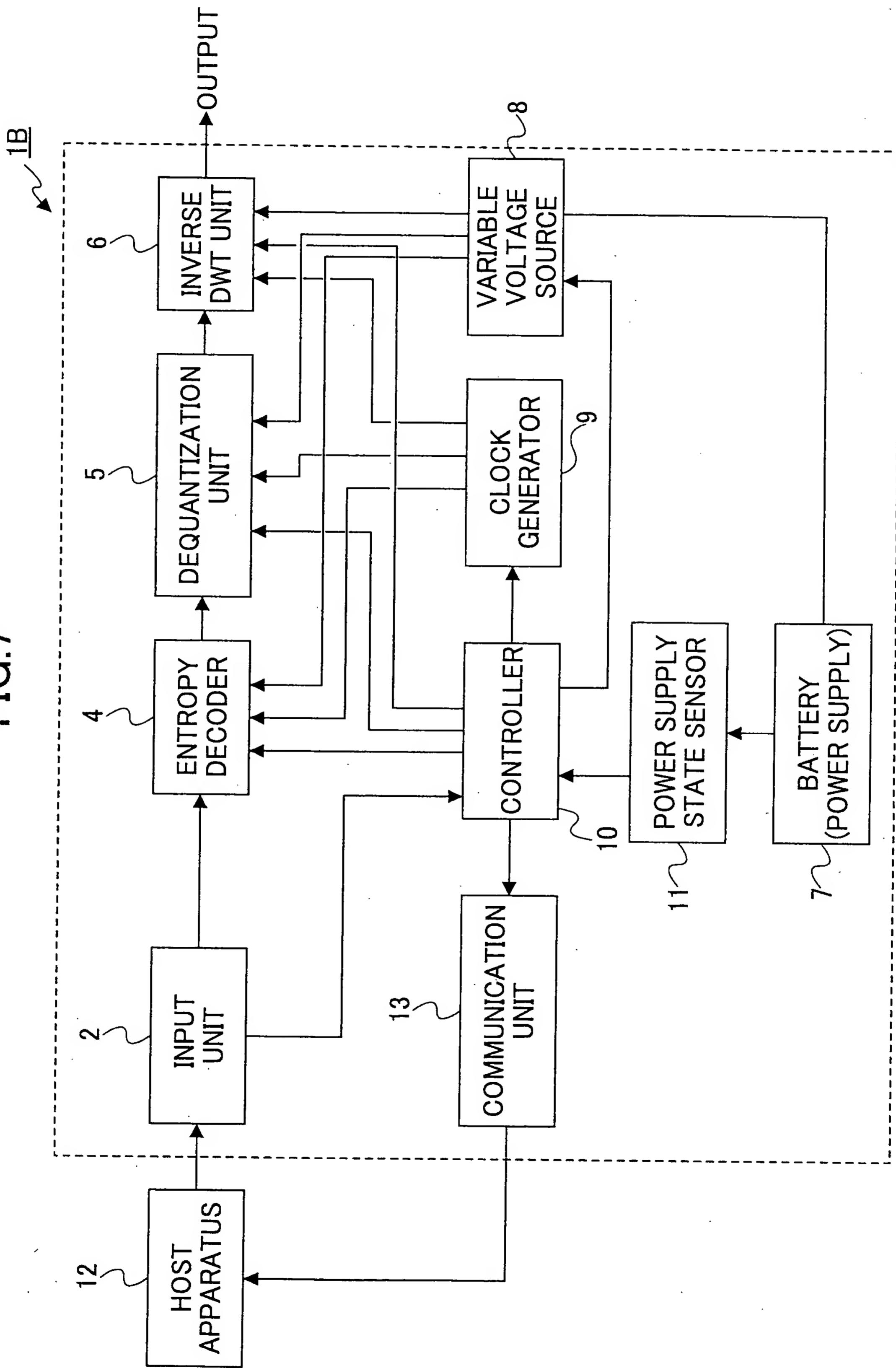


FIG.8

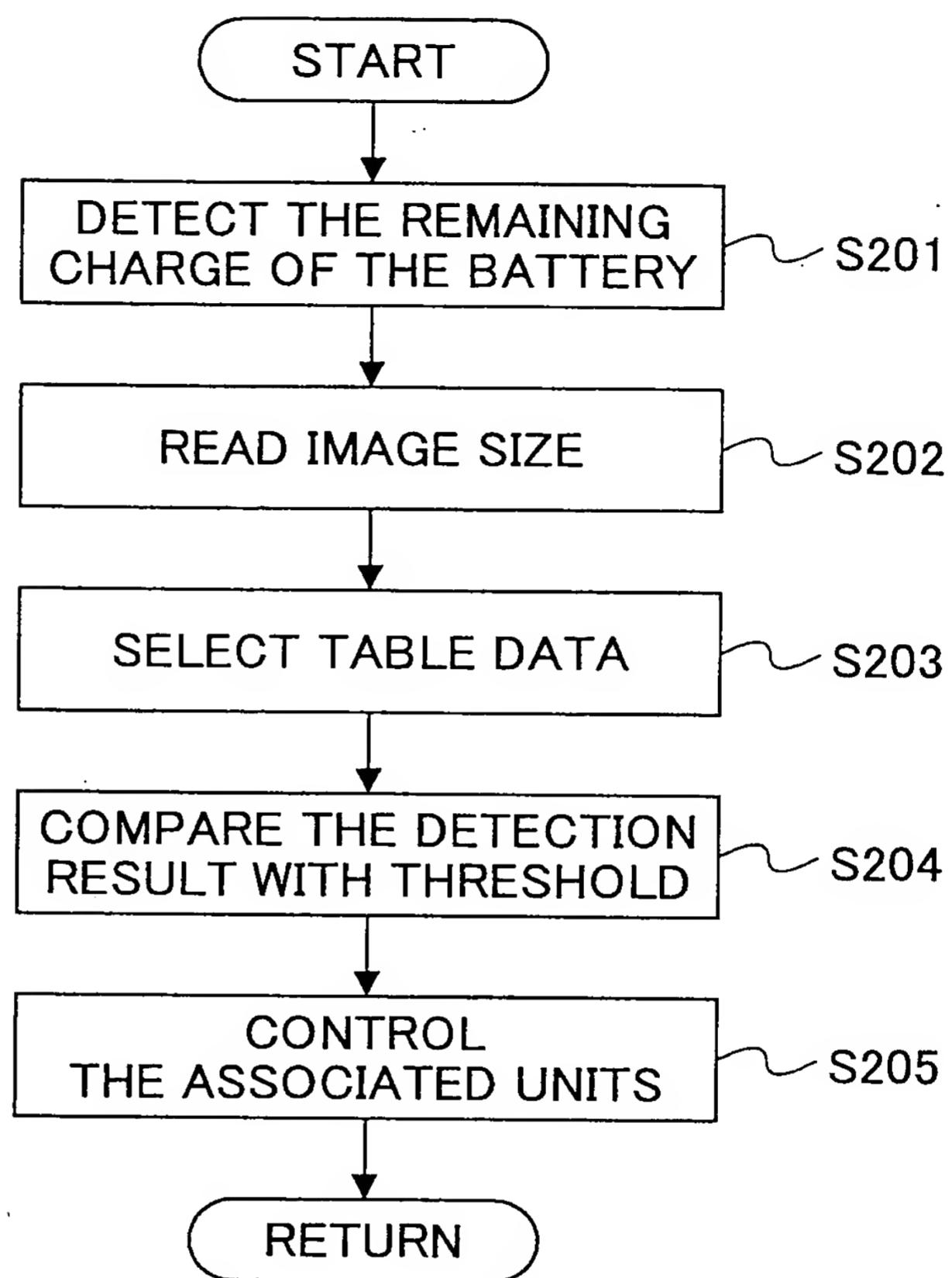


FIG.9

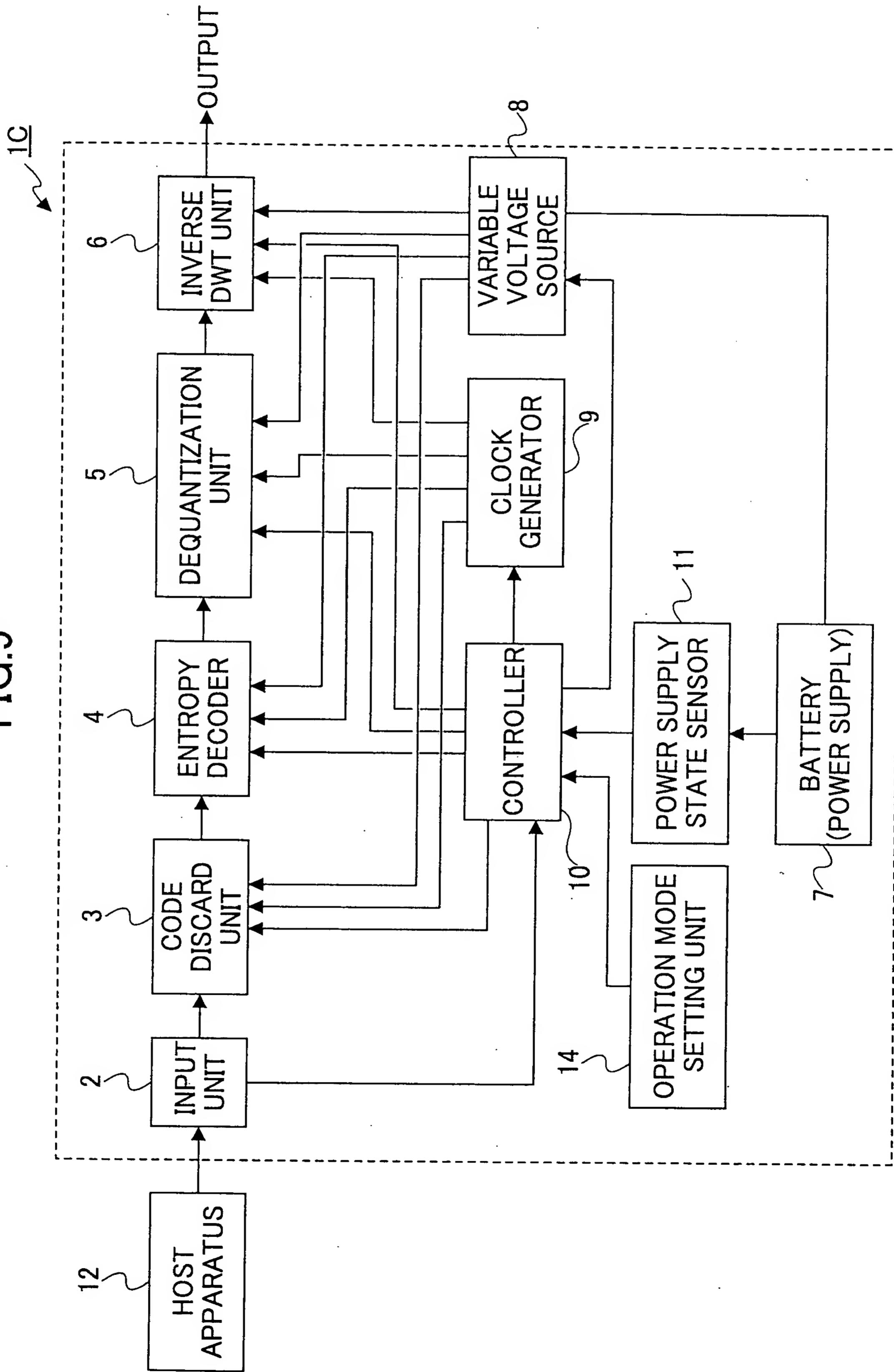


FIG.10

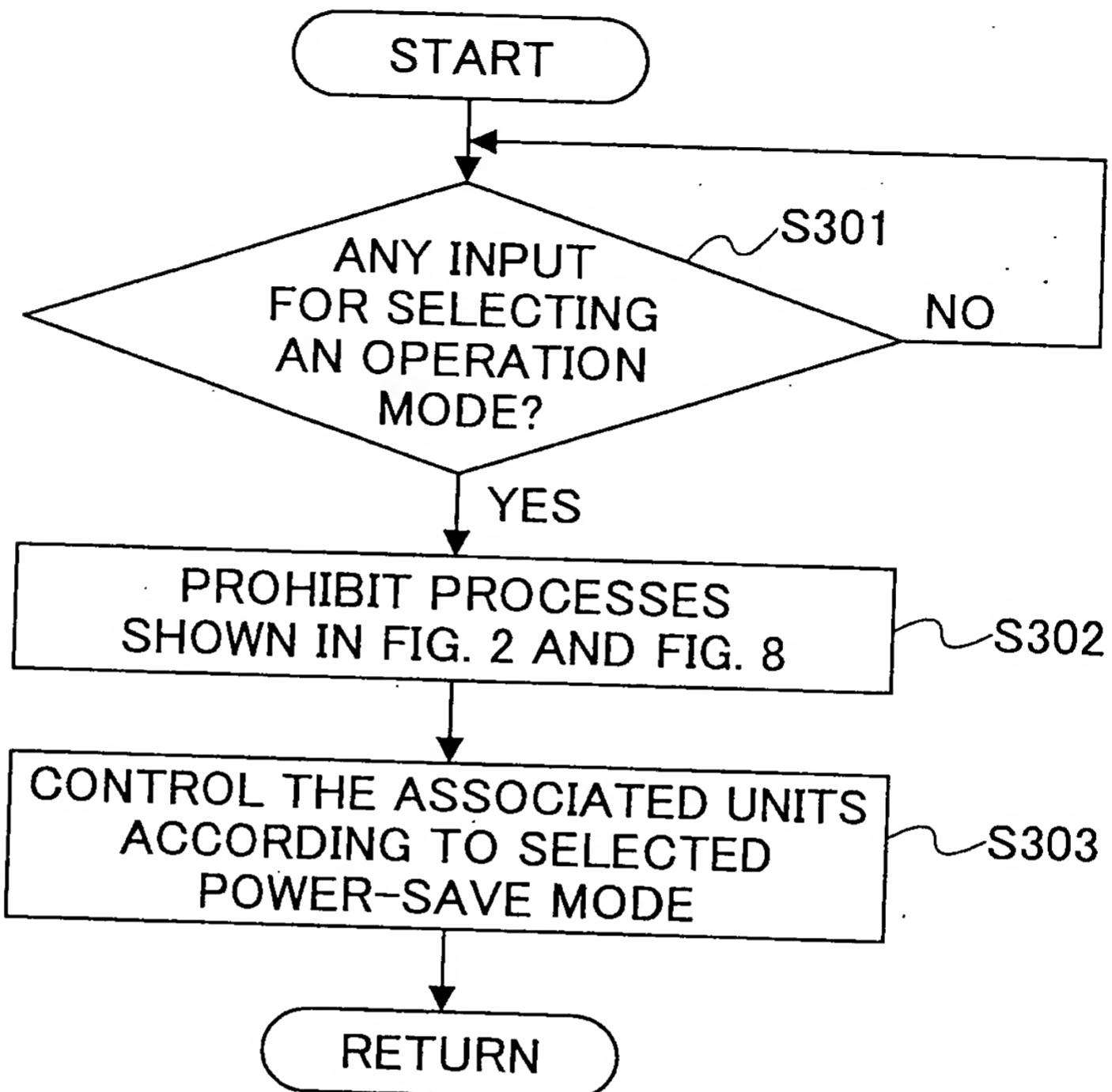


FIG.11

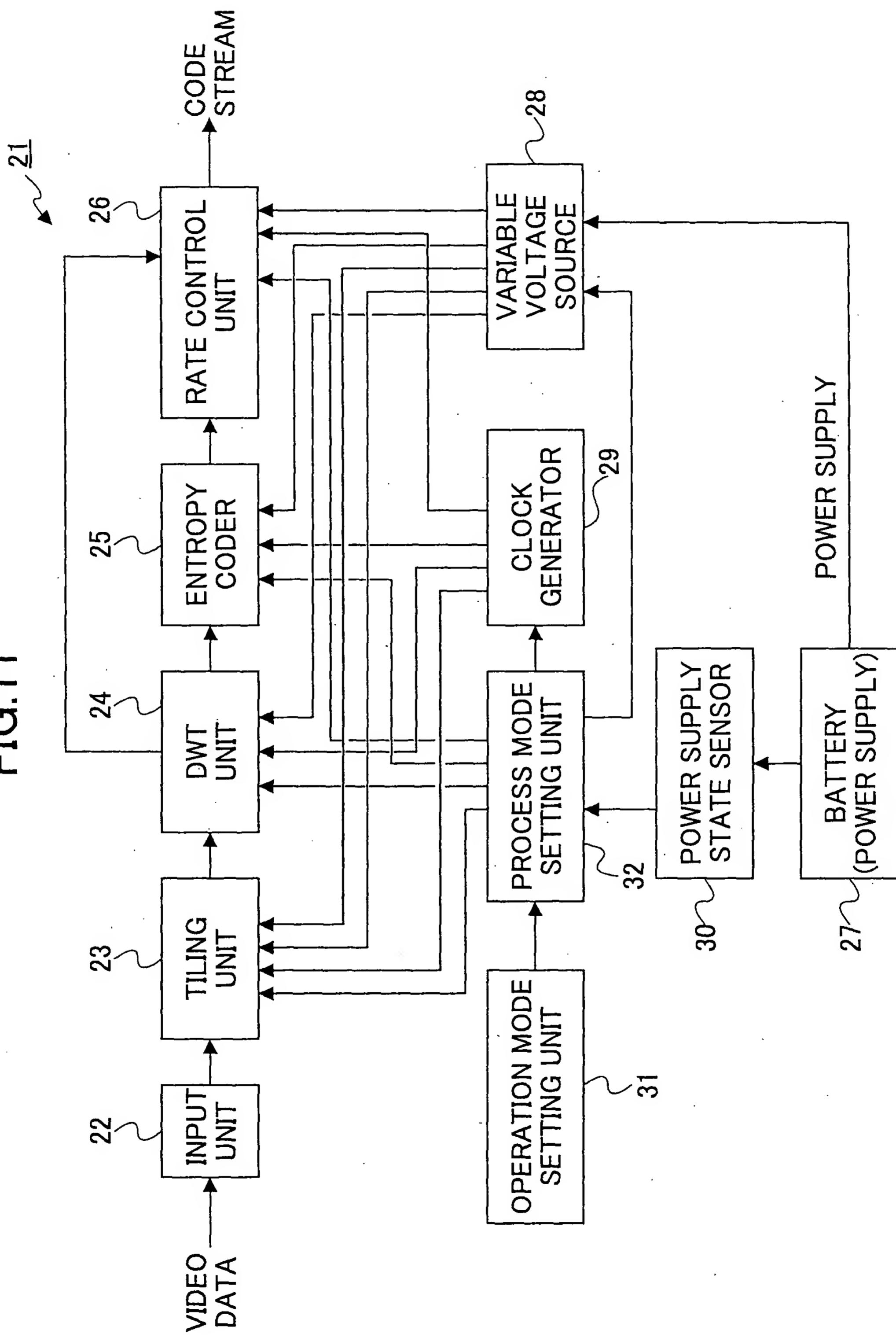


FIG.12

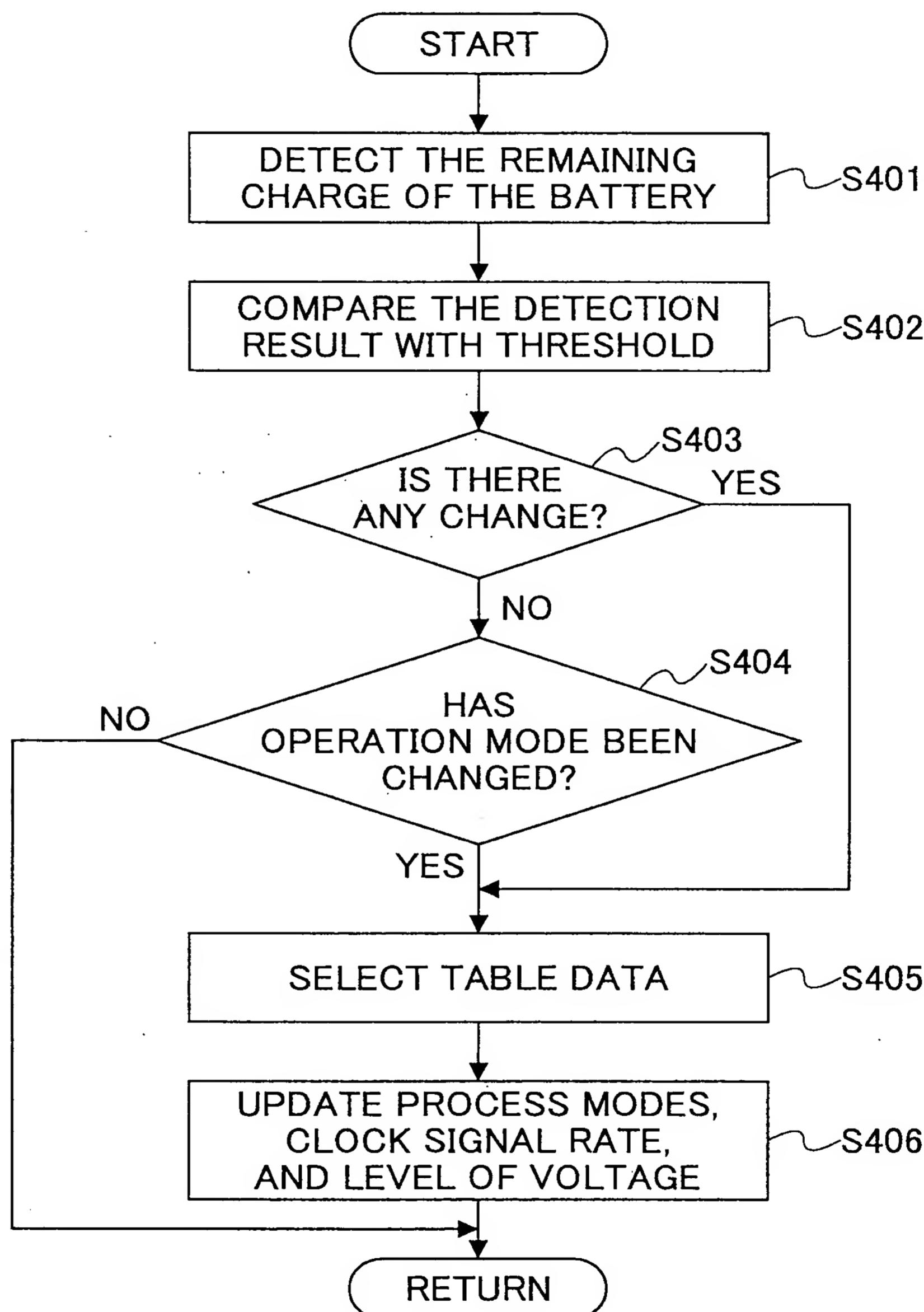
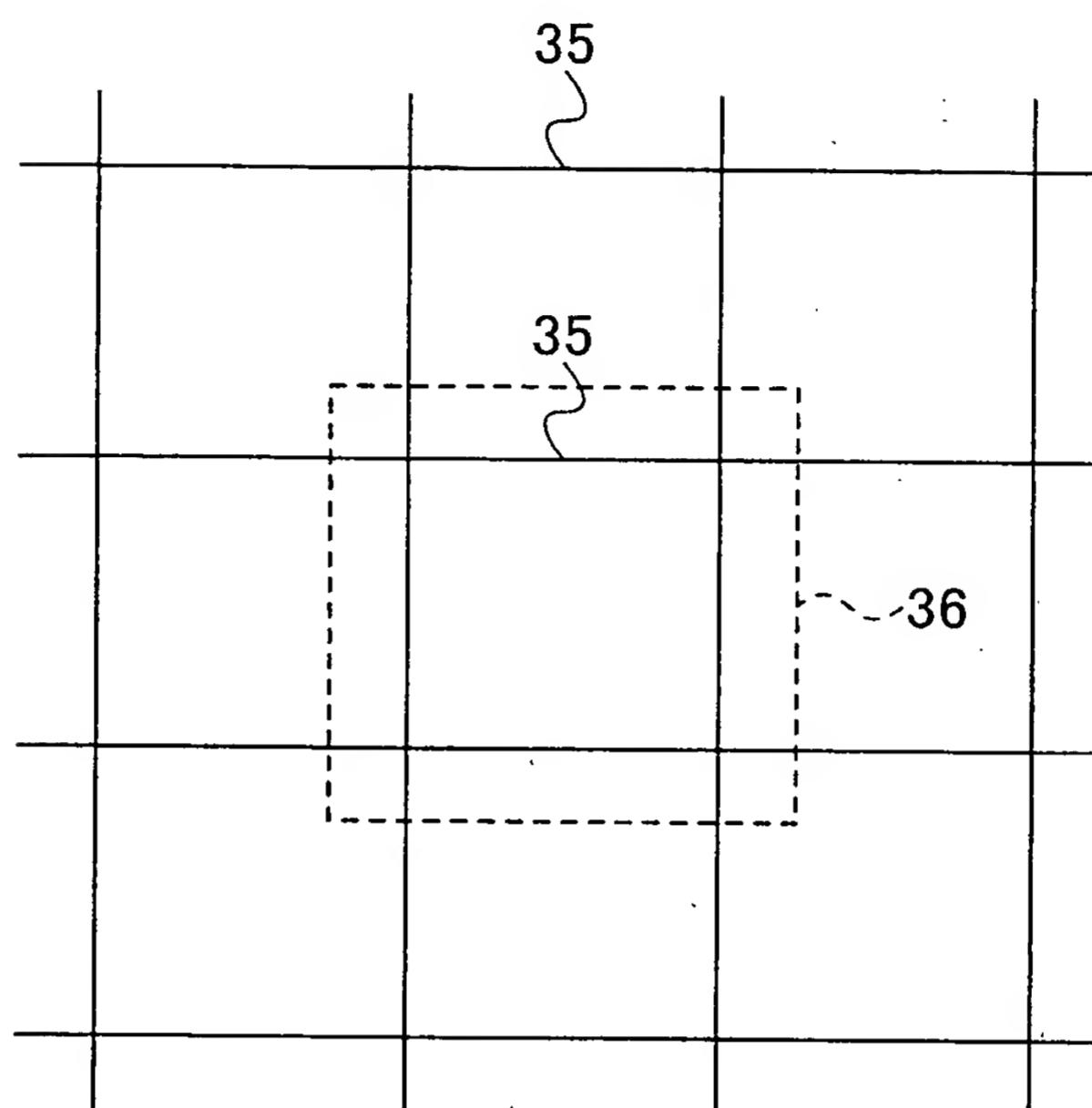


FIG. 13

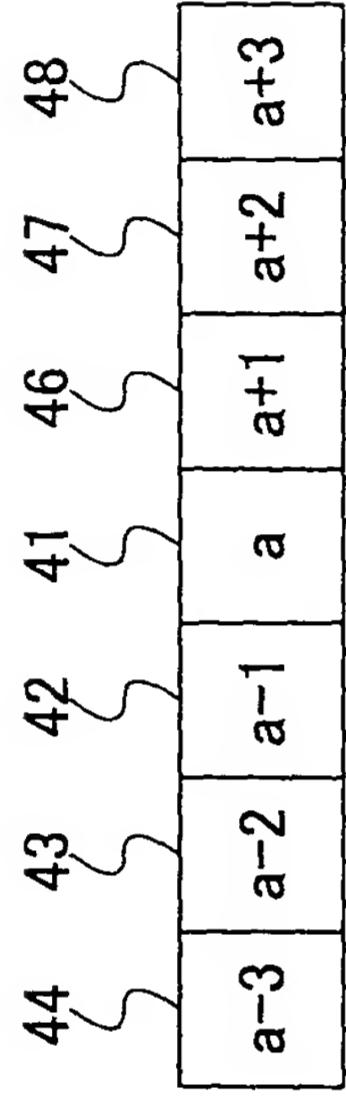
POWER SUPPLY STATE (OPERATION MODE)	PROCESS MODE	CLOCK	OUTPUT VOLTAGE
AC (ORDINARY MODE)	OVERLAP 9*7 (5-LEVEL) LAGRANGIAN RATE CONTROL	1/1 CLOCK	3.3V
BATTERY CHARGE SUFFICIENT (POWER-SAVE MODE 1)	OVERLAP 9*7 (5-LEVEL) PLAIN RATE CONTROL	1/1 CLOCK	3.3V NO POWER SUPPLY FOR LAGRANGIAN RATE CONTROL
BATTERY CHARGE INSUFFICIENT (POWER-SAVE MODE 2)	NON-OVERLAP 5*3 (3-LEVEL) PLAIN RATE CONTROL	3/4 CLOCK	3.1V

FIG.14



9*7 FILTER:

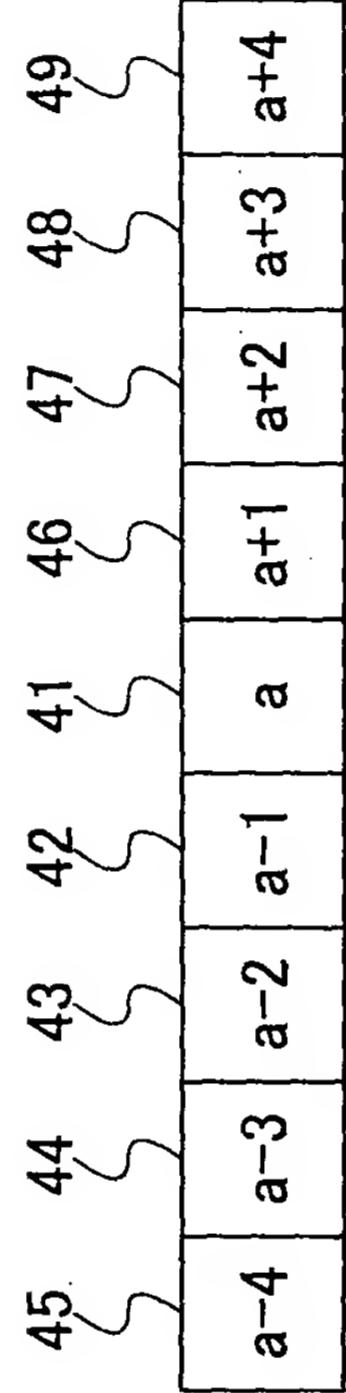
HIGH FREQUENCY
COMPONENT



$$\text{Coef.} = A1*(a-3) + A2*(a-2) + A3*(a-1) + A4*a + A5*(a+1) + A6*(a+2) + A7*(a+3)$$

FIG. 15A

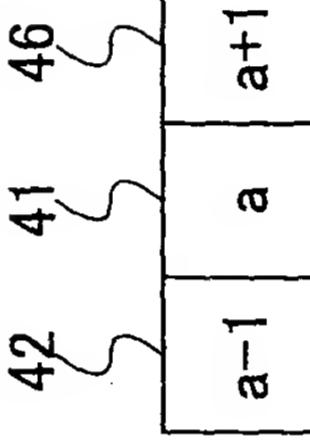
LOW FREQUENCY
COMPONENT



$$\text{Coef.} = B1*(a-4) + B2*(a-3) + B3*(a-2) + B4*(a-1) + B5*a + B6*(a+1) + B7*(a+2) + B8*(a+3) + B9*(a+4)$$

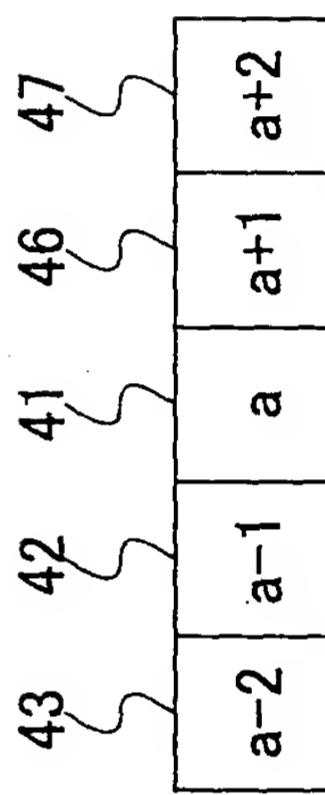
5*3 FILTER:

HIGH FREQUENCY
COMPONENT



$$\text{Coef.} = D1*(a-1) + D2*a + D3*(a+1)$$

LOW FREQUENCY
COMPONENT



$$\text{Coef.} = E1*(a-2) + E2*(a-1) + E3*a + E4*(a+1) + E5*(a+2)$$

FIG. 15D

FIG. 15C

FIG.16A

3-Level Wavelet Decomposition

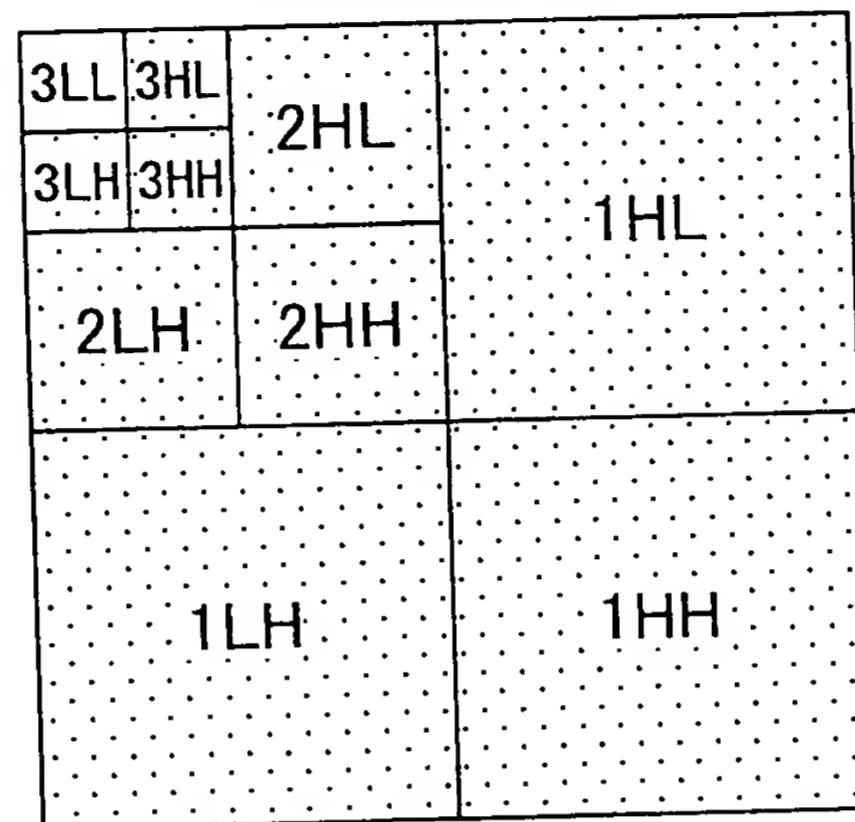


FIG.16B

5-Level Wavelet Decomposition

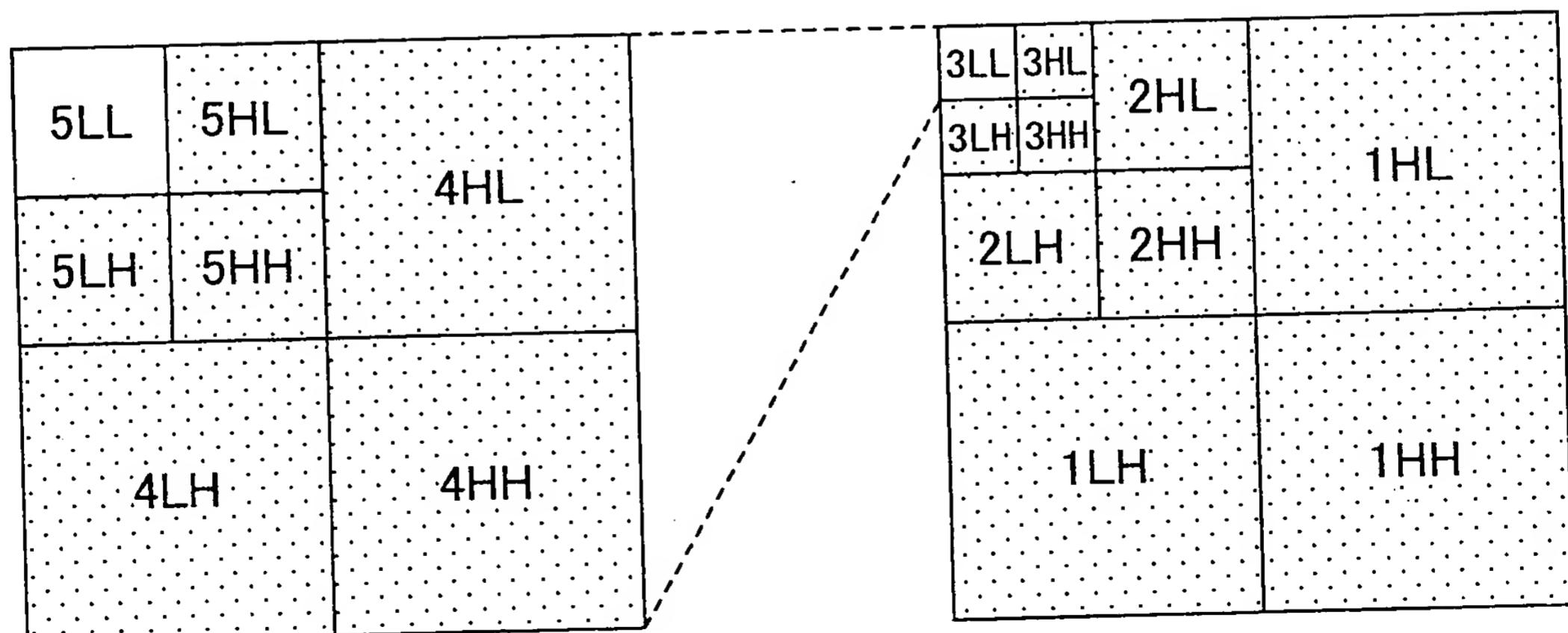


FIG.17

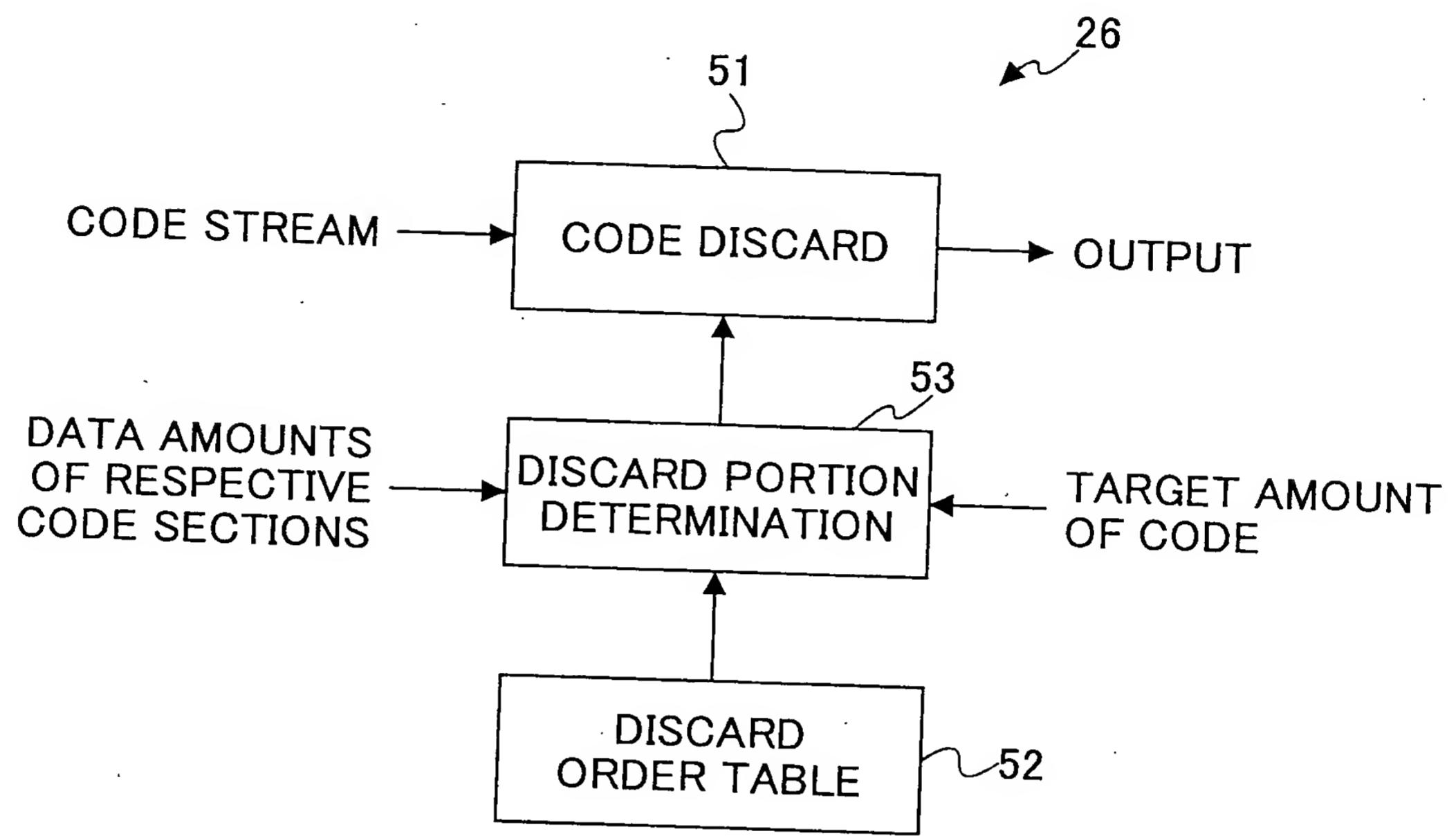


FIG.18

DISCARD PATTERN #	2LL	2HL	2LH	2HH	1HL	1LH	1HH
0	0	0	0	0	0	0	0
1	0	0	0	0	0	0	1
2	0	0	0	0	0	0	2
3	0	0	0	0	0	0	3
4	0	0	0	0	0	1	3
5	0	0	0	0	1	1	3
6	0	0	0	0	1	1	4
7	0	0	0	0	1	2	4
8	0	0	0	0	2	2	4
...

DISCARD ORDER TABLE

FIG.19

2LL	2LL	2LL	2LL	2HL	2HL	2HL	2HL	1HL							
2LL	2LL	2LL	2LL	2HL	2HL	2HL	2HL	1HL							
2LL	2LL	2LL	2LL	2HL	2HL	2HL	2HL	1HL							
2LL	2LL	2LL	2LL	2HL	2HL	2HL	2HL	1HL							
2LH	2LH	2LH	2LH	2HH	2HH	2HH	2HH	1HL							
2LH	2LH	2LH	2LH	2HH	2HH	2HH	2HH	1HL							
2LH	2LH	2LH	2LH	2HH	2HH	2HH	2HH	1HL							
2LH	2LH	2LH	2LH	2HH	2HH	2HH	2HH	1HL							
1LH	1HH														
1LH	1HH														
1LH	1HH														
1LH	1HH														
1LH	1HH														
1LH	1HH														
1LH	1HH														
1LH	1HH														

COEFFICIENTS OF 2-LEVEL WAVELET TRANSFORM

FIG.20A

0	1	2	3
4	5	6	7
8	9	10	11
12	13	14	15

COEFFICIENTS OF 2LL SUBBAND

FIG.20B

0	0	0	0
0	0	0	0
1	1	1	1
1	1	1	1

HIGHEST
BIT-PLANE

0	0	0	0
1	1	1	1
0	0	0	0
1	1	1	1

4 BIT-PLANES OF 2LL SUBBAND

0	0	1	1
0	0	1	1
0	0	1	1
0	0	1	1

0	1	0	1
0	1	0	1
0	1	0	1
0	1	0	1

LOWEST
BIT-PLANE

FIG.21

2LL	CODE OF THE HIGHEST BIT-PLANE
	...
2HL	CODE OF THE LOWEST BIT-PLANE
	CODE OF THE HIGHEST BIT-PLANE
2LH	...
	CODE OF THE LOWEST BIT-PLANE
2HH	CODE OF THE HIGHEST BIT-PLANE
	...
1HL	CODE OF THE LOWEST BIT-PLANE
	CODE OF THE HIGHEST BIT-PLANE
1LH	...
	CODE OF THE LOWEST BIT-PLANE
1HH	CODE OF THE HIGHEST BIT-PLANE
	...
	CODE OF THE LOWEST BIT-PLANE